

# Fluid Body Lotion SPF50

**2681-2.06**



- + Fluid texture**
- + High protection**
- + No sticky feel**

Phase	Name	INCI	Supplier	%
A1	DEMINEALIZED WATER	WATER	-	39.72
	KELCO-CARE™ DIUTAN GUM	SPHINGOMONAS FERMENT EXTRACT	LUBRIZOL	0.08
A2	BUTYLENE GLYCOL	BUTYLENE GLYCOL	-	3.00
B1	<b>EMULIUM® DERMOLEA MB</b>	POLYGLYCERYL-6 DISTEARATE, CANDELLILLA/ JOJOBA/ RICE BRAN POLYGLYCERYL-3 ESTERS	GATTEFOSSE	<b>4.00</b>
	COSMOSURF® CE-140	STEARYL/OCTADODECYL CITRATE CROSSPOLYMER	SURFATECH	2.00
B2	UVINUL® T 150	ETHYLHEXYL TRIAZONE	BASF	4.00
	UVINUL® A PLUS	DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	BASF	5.00
	TINOSORB® S	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	BASF	3.00
	PARSOL® EHS	ETHYLHEXYL SALICYLATE	DSM	5.00
	C12-15 ALKYL BENZOATE	C12-15 ALKYL BENZOATE	-	5.00
	PRESERVATIVE	PRESERVATIVE	-	0.70
	SCHERCEMOL™ DIS ESTER	DIISOPROPYL SEBACATE	LUBRIZOL	8.00
	<b>DPPG CG</b>	PROPYLENE GLYCOL DIPELARGONATE	GATTEFOSSE	<b>4.00</b>
C	TINOSORB® M	METHYLENE BIS-BENZOTRIAZOLYL TETRAMETHYLBUTYLPHENOL, WATER, DECYL GLUCOSIDE, PROPYLENE GLYCOL, XANTHAN GUM	BASF	10.00
	DEMINEALIZED WATER	WATER	-	3.00
D	CITRIC ACID (30% SOL.)	WATER, CITRIC ACID	-	0.10
E	PERFUME EUGENIA WHITE CREAM	PARFUM	TECHNICO-FLOR	0.40
F	<b>GATULINE® IN-TENSE MB</b>	CAPRYLIC/CAPRIC TRIGLYCERIDE, ACMEILLA OLERACEA EXTRACT	GATTEFOSSE	<b>1.00</b>
	<b>SOLASTEMIS™</b>	FRUCTOSE, WATER, GLYCERIN, SECHIUM EDULE FRUIT EXTRACT	GATTEFOSSE	<b>2.00</b>

100

## Operating instructions

- Heat demineralized water at 75°C and add Kelco-Care™ diutan gum under stirring then let the gel swell under mixing for 10min.
- Add A2.
- Heat phase B2 at 78°C under stirring until complete solubilization of the UV filters, then let it cool to 70-75°C.
- Then add B1 into B2 and stir until complete solubilization.
- Add B (70°C) to A (70°C) under stirring and homogenize for 10 min at 2000rpm.
- Then cool to 50°C under mixing 1000rpm.
- Add phase C premixed to emulsion under stirring and homogenize for 2min at 2000rpm.
- Cool to 35°C and add one by one under mixing phases D, E, and F.
- Complete cooling to 25°C under mixing.

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### Description

This SPF50 Lotion is the perfect texture for body application without any sticky feel. Due to its low viscosity, this formula is super easy to spread on the skin. As every suncare formulation with chemical UV filters only, the oil phase is quite important in the formula. However, 4% of **Emulium® Dermolea MB** is sufficient to emulsify this oil phase without co-emulsifier.

### Specifications

- + Aspect: Glossy and slighty yellow lotion
- + pH: 5.4 ± 0.3
- + Viscosity Brookfield RV (spindle A, speed 5): approx. 6000 mPa.s after 24h
- + Photostability 92%
- + Conform to Australian, EU, Japan, UK, MERCOSUR, and China regulations
- + SPF *in vivo* (ISO 24444:2019): 50 (6 vol.)
- + UVA *in vitro* (ISO 24443:2021): 23.7
- + Critical wavelength (ISO 24443:2021): 378nm

### Ingredients

- **Emulium® Dermolea MB** is a 100% natural origin O/W emulsifier which supports the skin barrier function. It is used at 4% in this formula to emulsify the oil phase containing UV filters and solubilizers.
- Uvinul® A Plus (powder) is an organic lipophilic UVA filter.
- Parsol® EHS (powder) and Uvinul® T 150 (liquid) are organic lipophilic UVB filters.
- Tinosorb® S and Tinosorb® M are broad spectrum organic UV filters. Tinosorb® S is a lipophilic powder, and Tinosorb® M is an organic nano dispersion that is soluble in the water phase.
- **DPPG CG**, C12-15 Alkyl Benzoate, and Schercemol™ Dis Ester are solubilizers that help to solubilize the lipophilic UV filters in powder form listed above.
- Kelco-Care™ Diutan Gum is an aqueous gelling agent that is efficient at low percentage (here 0.08%) to stabilize even at high temperature.
- Cosmosurf® CE-140 is a film-forming polymer, added to improve water-resistance.
- **Gatuline® In-Tense MB** is a naturally derived anti-aging active with immediate effect against wrinkles and sagging.
- **Solastemis™** shields the skin from damage induces by solar exposure.